

## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/547,999  
Source: IFWO  
Date Processed by STIC: 9/29/06

***ENTERED***



IFWO

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/547,999**

**DATE: 09/29/2006**  
**TIME: 15:00:43**

**Input Set : F:\SEQLIST.TXT**  
**Output Set: N:\CRF4\09292006\J547999.raw**

4 <110> APPLICANT: PORTNOY, DANIEL A.  
 5 CALENDAR, RICHARD  
 6 LAUER, PETER M.  
 8 <120> TITLE OF INVENTION: SITE SPECIFIC LISTERIA INTEGRATION VECTORS AND METHODS FOR  
 USING THE SAME  
 11 <130> FILE REFERENCE: BERK-017CIP  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/547,999  
 C--> 13 <141> CURRENT FILING DATE: 2005-09-07  
 13 <150> PRIOR APPLICATION NUMBER: US03/13492  
 14 <151> PRIOR FILING DATE: 2003-04-29  
 16 <150> PRIOR APPLICATION NUMBER: 10/136,860  
 17 <151> PRIOR FILING DATE: 2002-04-30  
 19 <160> NUMBER OF SEQ ID NOS: 28  
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 25  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Artificial Sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: oligonucleotide  
 31 <400> SEQUENCE: 1  
 32 ggacgtcatt aaccctcaact aaagg 25  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 25  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: oligonucleotide  
 42 <400> SEQUENCE: 2  
 43 ggacgtcaat acgactcaact atagg 25  
 45 <210> SEQ ID NO: 3  
 46 <211> LENGTH: 25  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Artificial Sequence  
 50 <220> FEATURE:  
 51 <223> OTHER INFORMATION: oligonucleotide  
 53 <400> SEQUENCE: 3  
 54 ggacgtcgct atttaacgac cctgc 25  
 56 <210> SEQ ID NO: 4  
 57 <211> LENGTH: 36  
 58 <212> TYPE: DNA  
 59 <213> ORGANISM: Artificial Sequence  
 61 <220> FEATURE:  
 62 <223> OTHER INFORMATION: oligonucleotide

*See p. 6*

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64 <400> SEQUENCE: 4
65 gagctgcagg agaattacaa cttatatcgt atgggg 36
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 33
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: oligonucleotide
75 <400> SEQUENCE: 5
76 gcactgcagc cgcttgcctt catctgttac gcc 33
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 33
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: oligonucleotide
86 <400> SEQUENCE: 6
87 catgcatgcc ttcgcctgt cccctcagtt cag 33
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 29
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: oligonucleotide
97 <400> SEQUENCE: 7
98 gtagatctta actttccatg cgagaggag 29
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 36
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: oligonucleotide
108 <400> SEQUENCE: 8
109 gggcatgcga taaaaagcaa tctatagaaa aacagg 36
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 29
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: oligonucleotide
119 <400> SEQUENCE: 9
120 cctaagctt cgatcatcat aattctgtc 29
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 37
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: oligonucleotide
130 <400> SEQUENCE: 10

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**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/547,999**

**DATE: 09/29/2006**  
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**Input Set : F:\SEQLIST.TXT**  
**Output Set: N:\CRF4\09292006\J547999.raw**

131 gggcatgcag atctttttt cagaaaatcc cagtacg	37
133 <210> SEQ ID NO: 11	
134 <211> LENGTH: 24	
135 <212> TYPE: DNA	
136 <213> ORGANISM: Artificial Sequence	
138 <220> FEATURE:	
139 <223> OTHER INFORMATION: oligonucleotide	
141 <400> SEQUENCE: 11	
142 ggtctagatc aagcacatac ctag	24
144 <210> SEQ ID NO: 12	
145 <211> LENGTH: 25	
146 <212> TYPE: DNA	
147 <213> ORGANISM: Artificial Sequence	
149 <220> FEATURE:	
150 <223> OTHER INFORMATION: oligonucleotide	
152 <400> SEQUENCE: 12	
153 cgggatcctg aagcttggga agcag	25
155 <210> SEQ ID NO: 13	
156 <211> LENGTH: 22	
157 <212> TYPE: DNA	
158 <213> ORGANISM: Artificial Sequence	
160 <220> FEATURE:	
161 <223> OTHER INFORMATION: oligonucleotide	
163 <400> SEQUENCE: 13	
164 ctcatgaact agaaaaatgt gg	22
166 <210> SEQ ID NO: 14	
167 <211> LENGTH: 22	
168 <212> TYPE: DNA	
169 <213> ORGANISM: Artificial Sequence	
171 <220> FEATURE:	
172 <223> OTHER INFORMATION: oligonucleotide	
174 <400> SEQUENCE: 14	
175 tgaagttaaac ccgcacacacga tg	22
177 <210> SEQ ID NO: 15	
178 <211> LENGTH: 24	
179 <212> TYPE: DNA	
180 <213> ORGANISM: Artificial Sequence	
182 <220> FEATURE:	
183 <223> OTHER INFORMATION: oligonucleotide	
185 <400> SEQUENCE: 15	
186 tgtaacatgg aggttctggc aatc	24
188 <210> SEQ ID NO: 16	
189 <211> LENGTH: 24	
190 <212> TYPE: DNA	
191 <213> ORGANISM: Artificial Sequence	
193 <220> FEATURE:	
194 <223> OTHER INFORMATION: oligonucleotide	
196 <400> SEQUENCE: 16	
197 acataaatcag tccaaagtag atgc	24

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/547,999

DATE: 09/29/2006

TIME: 15:00:43

Input Set : F:\SEQLIST.TXT

Output Set: N:\CRF4\09292006\J547999.raw

199 <210> SEQ ID NO: 17  
 200 <211> LENGTH: 21  
 201 <212> TYPE: DNA  
 202 <213> ORGANISM: Artificial Sequence  
 204 <220> FEATURE:  
 205 <223> OTHER INFORMATION: oligonucleotide  
 207 <400> SEQUENCE: 17  
 208 acgaatgtaa atattgagcg g 21  
 210 <210> SEQ ID NO: 18  
 211 <211> LENGTH: 29  
 212 <212> TYPE: DNA  
 213 <213> ORGANISM: Artificial Sequence  
 215 <220> FEATURE:  
 216 <223> OTHER INFORMATION: oligonucleotide  
 218 <400> SEQUENCE: 18  
 219 gaagatctcc aaaaataaac aggtgggtgg 29  
 221 <210> SEQ ID NO: 19  
 222 <211> LENGTH: 29  
 223 <212> TYPE: DNA  
 224 <213> ORGANISM: Artificial Sequence  
 226 <220> FEATURE:  
 227 <223> OTHER INFORMATION: oligonucleotide  
 229 <400> SEQUENCE: 19  
 230 catgcatgcg tggaggggaaa gaagaacgc 29  
 232 <210> SEQ ID NO: 20  
 233 <211> LENGTH: 18  
 234 <212> TYPE: DNA  
 235 <213> ORGANISM: Artificial Sequence  
 237 <220> FEATURE:  
 238 <223> OTHER INFORMATION: oligonucleotide  
 240 <400> SEQUENCE: 20  
 241 ggagggaaaag aagaacgc 18  
 243 <210> SEQ ID NO: 21  
 244 <211> LENGTH: 24  
 245 <212> TYPE: DNA  
 246 <213> ORGANISM: Artificial Sequence  
 248 <220> FEATURE:  
 249 <223> OTHER INFORMATION: oligonucleotide  
 251 <400> SEQUENCE: 21  
 252 tatcagaccc aacccaaacc ttcc 24  
 254 <210> SEQ ID NO: 22  
 255 <211> LENGTH: 24  
 256 <212> TYPE: DNA  
 257 <213> ORGANISM: Artificial Sequence  
 259 <220> FEATURE:  
 260 <223> OTHER INFORMATION: oligonucleotide  
 262 <400> SEQUENCE: 22  
 263 aatcgaaaaa taaaaatctt ctcg 24  
 265 <210> SEQ ID NO: 23

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/547,999**

**DATE: 09/29/2006**  
**TIME: 15:00:43**

**Input Set : F:\SEQLIST.TXT**  
**Output Set: N:\CRF4\09292006\J547999.raw**

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266 <211> LENGTH: 21
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: oligonucleotide
273 <400> SEQUENCE: 23
274 gtcaaaacat acgctttat c 21
276 <210>, SEQ ID NO: 24
277 <211> LENGTH: 6101
278 <212> TYPE: DNA
279 <213> ORGANISM: Shuttle integration vector pPL1
281 <220> FEATURE:
282 <221> NAME/KEY: misc_feature
283 <222> LOCATION: 3676
284 <223> OTHER INFORMATION: n = A,T,C or G
286 <400> SEQUENCE: 24
287 gacgtcaata cgactcacta tagggcgaat tgggtaccgg gccccccctc gaggtcgacg 60
288 gtatcgataa gcttgatatac gaattcctgc agcccgaaaa atccactagt tctagagcg 120
289 ccggccaccgc ggtggagctc cagctttgt tccctttagt gagggtaat gacgtcgcta 180
290 tttaacgacc ctgcctgaa ccgacgaccc ggtcgaaattt gcttcgaat ttctgccatt 240
291 catccgctta ttataactta ttcaggcgta gcaccaggcg tttaaggcaca 300
292 cttaaaaaaaa attaaggcccc gcccgtccac tcatacgact actgttgtaa ttcatthaagc 360
293 attctgcga catggaaagcc atcacagacg gcatgatgaa cctgaatcg cagccggatc 420
294 agcaccttgt cgccttgcgt ataataatttgc cccatggta aaacgggggc gaagaagttg 480
295 tccatattgg ccacgtttaa atcaaaaactg gtgaaactca cccaggatt ggctgagacg 540
296 aaaaacatat tctcaataaa cccttaggg aaataggcca ggtttcacc gtaacacgccc 600
297 acatcttgcg aatataatgtg tagaaaactgc cgaaaaatcg cgtggatttc actccagagc 660
298 gatggaaaacg tttcagtttgc ctcatggaaa acgggtgtaac aagggtgaaac actatccat 720
299 atcaccagct caccgtctt cattgccata cggaattccg gatgagcatt catcaggcg 780
300 gcaagaatgt gaataaaggc cgataaaac ttgtgttttat ttttcttac ggtctttaaa 840
301 aaggccgtaa tatccagctg aacggtctgg ttataggtaat tgagcaac tgactgaaat 900
302 gcctcaaaat gttcttacg atgccattgg gatataatcaa cggtggata tccagtgatt 960
303 ttttctcca ttttagcttc tttagctctt gaaaatctcg ataactcaaa aaatacgccc 1020
304 ggtagtgatc ttatttcatt atggtaaaag ttggaaacctc ttacgtgccg atcaacgtct 1080
305 cattttcgcc aaaaggttggc ccagggtctc ccggatcaaa cagggacacc aggatttt 1140
306 tattctgcga agtgcatttc cgtcacaggat atttattcg cgcaaatgc gtcgggtgat 1200
307 gctgccaact tactgattta gtgtatgatg gtgttttg ggtgtccag tggcttctgt 1260
308 ttctatcagc tgcgttttttgc ttccatgtac tgacgggggtg gtgcgttaacg gcaaaaggcac 1320
309 cgccggacat cagcgcttagc ggagtgtata ctggcttact atgttggcac tgatgagggt 1380
310 gtcagtgaag tgcttcatgt ggcaggagaa aaaaggctgc accgggtcgat cagcagaata 1440
311 tgtgatacag gatataattcc gtttccctcg tcactgactc gctacgtcg gtcgttcgac 1500
312 tgcggcgagc gggaaatggct tacgaacggg gcggagattt cctggaaagat gccaggaaga 1560
313 tacttaacag ggaagtgaga gggccgcgcgaa aacccgtttt ttccataggc tccggccccc 1620
314 tgacaagcat cacgaaatct gacgctcaaa tcagtggtgg cgaaaccgcg cagcactata 1680
315 aagataccag gcgttccccctt ccggcggttc cctcgatcg tctccgttc ctgccttgc 1740
316 gtttaccggcgt gtcatccgc tggtatggcc gcgtttgtct cattccacgc ctgacactca 1800
317 gttccgggtt ggcagttcgcc tccaaagctgg actgtatgca cgaacccccc gttcagtcgg 1860
318 accgctgcgc cttatccggtaactatcgcc ttgagtccaa cccggaaaaga catgcaaaag 1920
319 caccactggc agcagccact ggttaattgtat ttagaggat tagtcttgaa gtcatgcgc 1980

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RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 09/29/2006  
PATENT APPLICATION: US/10/547,999                    TIME: 15:00:44

*FYI*  
Input Set : F:\SEQLIST.TXT  
Output Set: N:\CRF4\09292006\J547999.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:24; N Pos. 3676  
Seq#:25; N Pos. 695

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/547,999

DATE: 09/29/2006

TIME: 15:00:44

Input Set : F:\SEQLIST.TXT

Output Set: N:\CRF4\09292006\J547999.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:3660

L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:660